

WHAT IS CLAIMED IS:

1. A method for multicasting/broadcasting IP data in a mobile communication system, comprising the steps of:

a packet data serving node (PDSN) receiving multicast packet data;

5 transforming the multicast packet data to a PPP frame format having an identification header;

transmitting multicast message to base station controller/packet control function (BSC/PCF);

10 the BSC/PCF transmitting multicasting/broadcasting message to all or some of base stations under control of the BSC/PCF according to header information of the multicast message; and

transmitting the multicasting/broadcasting message to mobile station through broadcasting channel.

2. A method of claim 1 further comprising the steps of:

15 transforming data in the received multicast message to multicast frame data; and

adding IP packet header to the multicast frame data.

20 3. A method of claim 1 wherein the PSDN and a host add multicasting/broadcasting identification header for multicasting/broadcasting to a terminal receiving services under IMT-2000, PCS, and cellular systems.

4. A method of claim 1 wherein the mobile station receives the multicast PPP datagram and passes the data to the higher PPP link or IP layer.

5. A method of claim 1 wherein the multicast packet data comprises a header information including QoS, multicast/broadcast type, multicast/broadcast

group, and etc., and length information including body data of the PPP frame format and message body.

6. A method of claim 1 wherein PPP link frame data transmitted from the PDSN to the mobile station has a protocol identifier for identifying multicast frame data at a higher PPP layer in the mobile station.

7. A mobile communication system for multicasting/broadcasting IP data, comprising:

at least one packet data serving node (PDSN) for altering a received multicast packet data into PPP frame format and transmitting the PPP frame format through TCP/UDP port;

at least one base station controller/packet control function (BSC/PCF) for transmitting multicasting/broadcasting message to all or some of base station under control according to header information of the multicast message received from the PDSN;

at least one base station for transmitting the multicasting/broadcasting message received from the BSC/PCF to the mobile station through broadcasting channel.

8. A mobile terminal for multicasting/broadcasting IP data in a mobile communication system, the mobile station receives multicast/broadcast, having multicasting/broadcasting identification header, transmitted from higher packet data serving node (PDSN), base station controller/packet control function (BSC/PCF), and base station.